

LEXAN™ LUX9612G resin

Polycarbonate

SABIC Innovative Plastics Europe

Message:

LEXAN LUX9612G is a flame retardant polycarbonate featuring non brominated and non chlorinated FR system with diffusion effective and thin wall FR performance. It intended to meet WEEE/RoHS requirements for various applications.

General Information			
Features	Chlorine Free		
	Bromine-free		
	Flame retardancy		
Uses	Thin wall parts		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.60 - 0.80	%	Internal method
Water Absorption			ISO 62
Saturated, 23°C	0.35	%	ISO 62
Equilibrium, 23°C, 50% RH	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2300	MPa	ASTM D638
--	2230	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	62.0	MPa	ASTM D638
Yield	62.0	MPa	ISO 527-2/50
Fracture ³	65.0	MPa	ASTM D638
Fracture	58.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ⁴	6.0	%	ASTM D638
Yield	6.0	%	ISO 527-2/50
Fracture ⁵	80	%	ASTM D638
Fracture	75	%	ISO 527-2/50
Flexural Modulus			
50.0mm span ⁶	2160	MPa	ASTM D790
-- ⁷	2250	MPa	ISO 178
Flexural Stress			

--	95.0	MPa	ISO 178
Yield, 50.0mm span ⁸	95.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	400	J/m	ASTM D256
23°C ⁹	40	kJ/m ²	ISO 180/1A
Instrumented Dart Impact (23°C, Total Energy)	70.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, unannealed, 64.0mm span ¹⁰	135	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	123	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ¹¹	123	°C	ISO 75-2/Af
Vicat Softening Temperature	140	°C	ASTM D1525 ¹²
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
Linear thermal expansion coefficient			ASTM E831
Flow: -40 to 40°C	6.8E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	6.7E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (CTI)	PLC 3		UL 746
High Amp Arc Ignition (HAI)	PLC 1		UL 746
Hot-wire Ignition (HWI)	PLC 3		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Glow Wire Flammability Index (1.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
1.00 mm	850	°C	IEC 60695-2-13
1.50 mm	850	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	60.0 - 80.0	°C	
Rear Temperature	260 - 280	°C	
Middle Temperature	270 - 290	°C	
Front Temperature	280 - 310	°C	
Nozzle Temperature	270 - 290	°C	
Processing (Melt) Temp	280 - 310	°C	
Mold Temperature	80.0 - 110	°C	
NOTE			
1.	5.0 mm/min		
2.	Type 1, 50mm/min		

3.	Type 1, 50mm/min
4.	Type 1, 50mm/min
5.	Type 1, 50mm/min
6.	1.3 mm/min
7.	2.0 mm/min
8.	1.3 mm/min
9.	80*10*3
10.	80*10*4 mm
11.	80*10*4 mm
12.	标准 B (120°C/h), 载荷2 (50N)

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